

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An~~Four~~ isolated ~~or synthetic~~~~iso~~~~forms~~ of peptide comprising a member selected from the group consisting of:, ~~with anti-hypertensive properties, named as TsHpt-I (Tityus serrulatus Hypotensin I), TsHpt-II (Tityus serrulatus Hypotensin II), TsHpt-III (Tityus serrulatus Hypotensin III) and TsHpt-IV (Tityus serrulatus Hypotensin IV), and refereed as listed sequences SEQ ID NO: 1; SEQ ID NO: 2; SEQ ID NO: 3 and SEQ ID NO: 4.~~

2. (Currently Amended) An isolated or synthetic peptide expressed in a venom of a scorpion, wherein the peptide comprises at least two features selected from the group consisting of~~Other peptides from scorpions (presently taxonomic classification as follows: Eukariota; Metazoa; Arthropoda; Chelicerata; Arachnida; Scorpiones) belonging to the same pharmacologically active and structurally peptide family, characterized by two or more following features: i) lack of Cystein residues and, therefore, no lack of internal disulfide bridges; ii) a molecular signature at the a C-terminal ending or portion, described as: Xaa-Pro-Pro and/or Xaa-Pro-Pro-Ala, where Xaa is any amino acid residue; iii) pairs of amino acid residues such as Pro-Pro, Lys-Glu, Lys-Asp, Arg-Glu, Arg-Asp, Ile-Ile, Ile-Leu, Leu-Leu, Leu-Ile, which effective to form a protective shield against amino-, endo- and carboxi- proteinases enzymes; and iv) Hypotensive effects using "in vivo" tests (bioassays) in vertebrates. This family of scorpion peptides will be refereed hereinbelow as Scorpion Hypotensive Peptides (SHptP).~~

3. (Currently Amended) ~~An isolated or synthetic peptide~~Synthetic peptides comprising a complete, partial or modified sequences of a member selected from the group consisting of: SEQ ID NO: 1; SEQ ID NO: 2; SEQ ID NO: 3 and SEQ ID NO: 4, wherein the peptide is an anti-hypertensive agent~~claim 1 and/or molecular signatures of claim 2.~~

4. (Currently Amended) A nucleic acid molecule encoding the~~that codify for~~ peptides of claim 1 ~~and/or peptide family of claim 2.~~

5. (Currently Amended) ~~The~~Isolated and purified peptides of claim 1, ~~and/or claim 2~~ wherein the peptides are ~~is~~ produced by recombinant techniques using ~~any virus~~a viral system, any bacterial system, any fungal system, ~~or any other prokaryotic systems, or eukariotic other~~ eukaryotic systems or a combination thereof.

6. (Currently Amended) A method for producing any administrable pharmaceutical composition comprising the ~~complete, partial or modified amino acid sequences~~peptide of claim 1 ~~and claim 2.~~

7. (Currently Amended) A method for producing ~~any a~~ a genetically modified virus, bacteria, fungi, plant or any other recombinant techniques using any virus system, any bacterial system, any fungal system or any other prokaryotic or ~~eukariotic~~eukaryotic system or combination thereof, in order to use these organisms as excipient or vector for complete, partial or modified sequences of claim 1 ~~and/or claim 2.~~

8. (Currently Amended) A pharmaceutical composition comprising an anti-hypertensive amount of the peptides of claim 1.

9. (Currently Amended) A method for labeling and/or chemically modifying a peptides of claim 1 ~~and claim 2~~.